

Storm Water Pollution Prevention Plan for Sunnyside Marina



November 15, 2000

STORM WATER POLLUTION PREVENTION PLAN
FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT
FOR
DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH
INDUSTRIAL ACTIVITY AND MAINTENANCE DREDGING AT MARINAS
FOR
SUNNYSIDE MARINA
1850 WEST LAKE BLVD., TAHOE CITY, CA 96145
APN: 084-140-028

INTRODUCTION

The California Regional Water Quality Control Board (RWQCB) – Lahontan Region has recently developed a National Pollutant Discharge Elimination System (NPDES) General Permit for discharges of storm water run-off associated with industrial activity and maintenance dredging at marinas at Lake Tahoe. The General Permit combines requirements from the NPDES General Industrial Activities Storm Water Permit and the individual Waste Discharge Requirements in order to decrease costs and complexities associated with complying with two similar permits and their monitoring and reporting requirements. Regulations pursuant to this General Permit will manage potential pollutant discharges at the marina including storm water run-off, waste from maintenance activities, vessel sewage, bilge water wastes, and pollutants associated with maintenance dredging.

The Storm Water Pollution Prevention Program (SWPPP) is a site-specific document developed for each marina in the Lake Tahoe Basin and is designed to comply with Federal requirements to implement BMPs. In accordance with this document, Sunnyside Marina is required to install Best Management Practices (BMPs) to ensure that effluent limits and water quality objectives outlined by the Basin Plan are met with respect to fuel, oil, and sewage and that impacts associated with maintenance dredging are prevented or minimized.

This SWPPP is certified in accordance with the signatory requirements of Section 9 of the Standard Provisions as Attachment A in this document. It shall be revised whenever appropriate and readily available for review by facility employees or Regional Board inspectors.

OBJECTIVES

The SWPPP shall be developed and amended, when necessary, to meet the following objectives:

1. Identify and evaluate sources of pollutants associated with industrial activities being conducted at the facility that may affect the quality of storm water discharges and prevent non-storm water discharges from the facility
2. Identify and implement site-specific BMPs to reduce or prevent pollutants associated with industrial activities in storm water discharges and non-storm water discharges.

Appropriate BMPs include both structural and non-structural pollution prevention measures. Structural BMPs include treatment measures, run-off controls and overhead coverage. Non-structural BMPs include activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures.

POLLUTION PREVENTION TEAM

The pollution prevention team for Sunnyside Marina shall consist of Andrea Buxton, Jan Brisco, Mike Schenone, and Tom Buswell.

1. Jan Brisco and Andrea Buxton will be responsible for researching all information required by the General Permit, writing the SWPPP, and assisting the marina operator in implementation of any necessary BMP's and monitoring and reporting activities.
2. Mike Schenone is the marina operator and will be responsible for implementation of any necessary BMP's and will conduct monitoring and reporting activities.
3. Tom Buswell is a land surveyor and will be responsible for producing a site map of the Sunnyside Marina property.

There are no existing facility plans that contain storm water pollutant control measures. A Hazardous Materials Inventory is on file with the Placer County Department of Environmental Health.

SITE MAP

A site map for the Sunnyside Marina property is included as Attachment B in this document and includes all features relevant to the requirements of the SWPPP.

LIST OF SIGNIFICANT MATERIALS

A list of significant materials handled and stored at the site is included as Attachment C in this document and includes purpose of each material, storage locations and quantities stored, handling methods, frequencies of use, and disposal methods.

DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

The following is a description of the industrial activities of Sunnyside Marina that are associated with potential pollutants. It includes pollutant sources that could potentially be discharged with storm water or non-storm water and the BMPs implemented onsite to prevent these pollutants from entering surface waters or stormwater. A summary of all areas of industrial activities, potential pollutant sources, and corresponding BMPs is included as Attachment D in this document.

The season of operation at Sunnyside Marina extends from May 31 to November 1 each year. All industrial activities described below are only associated with the above dates of operation.

INDUSTRIAL PROCESSES

1. Fueling
 - a. Locations of activity
 - Inside boathouse at portable fueling tank
 - On fuel dock at one fuel pump
 - b. Pollutant type
 - Unleaded gasoline (benzene, toluene, ethylbenzene, xylenes, and other petroleum hydrocarbons)
 - c. Pollutant characteristics
 - Colorless, flammable liquid
 - Slightly soluble (0.18g/100 mL)
 - Odor detected at 12 ppm
 - Benzene is a known carcinogen
 - d. Potential pollutant sources
 - Leaks or spills near pumping stations
 - Overflow from boat gas tanks while fueling
 - Rainfall running off fueling area and rainfall running into and off fueling area
 - e. Quantity
 - Less than one gallon per incident
 - Incidents expected to occur very infrequently

- f. BMPs
 - Sorbent booms and pads located in boathouse and in storage bin on fuel dock for quick absorption of spilled fuel.
 - Automatic shut-off valve on fuel pump
 - Employees trained in proper fueling, clean-up and spill response techniques
 - Fueling area inspected regularly to detect problems before they occur
 - Run-on of storm water from parking lot into fueling area minimized with concrete berms and drop inlets
2. Boat Washing
- a. Location of activity
 - Maintenance area (inside boathouse)
 - Yard (outside boathouse)
 - b. Pollutant type
 - Oily residues
 - Algae
 - c. Pollutant characteristics
 - Petroleum hydrocarbons
 - Organic matter (biodegradation will consume oxygen and yield nutrients)
 - d. Pollutant source
 - Films on outsides of boats
 - e. Quantity
 - Low concentrations of both pollutants
 - f. BMPs
 - Drop inlets in parking lot adjacent to activity locations to collect non-storm water run-off (hose water) generated during washing and divert it to underground gravel infiltration pits.
3. Boat Cleaning
- a. Location of Activity
 - Maintenance area
 - b. Pollutant Type
 - Acetone
 - Lacquer Thinner
 - c. Pollutant characteristics
 - May contain tetrachloroethylene (PERC), tetrachloroethane, trichloroethylene (TCE) and/or methylene chloride.
 - d. Pollutant source
 - Rags used to apply cleaning solvent



